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Four-dimensional radiotherapy planning for DMLC-based respiratory motion **tracking**
PJ Keall, B Joshi, SS Vedam, JV Siebers, VR Kini, R ... - Medical physics, 2005 - link.aip.org
... Dose-volume **histograms** (DVHs) for each constituent breathing phase and for the combined ...
to beam-delivery system constraints, such as leaf acceleration and **velocity** limitations, the ... patient's
respiratory signal and feeding this information to a **four-dimensional** controller which ...
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Algorithms for fully automated three-**dimensional** particle **tracking** velocimetry
YG Guezennec, RG Brodkey, N Trigui, JC Kent - Experiments in Fluids, 1994 - Springer
... 2 Conceptual approach A code for a 3-D PTV has been developed to extract three- **dimensional**
velocity fields from ... simple image preprocessing steps (background subtraction and **histogram**
stretching), the images are fairly "standardized" and the **histogram** clearly shows ... f 4 b ...
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Automated **tracking** and grasping of a moving object with a robotic hand-eye system   psu.edu [PDF]
PK Allen - IEEE Transactions on Robotics and Automation, 1993 - ieeexplore.ieee.org
... we can find the centroid of the moving object by finding the mean of the resulting **histogram** ...
dimension to determine the height above the plane of the motion to command the robotic arm ...
is done with a Cartesian displacement using the fixed-gain filter described in [4]. The main ...
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[PDF] Real-time visual servoing   psu.edu [PDF]
PK Allen, B Yoshimi, A Timcenko - proceedings of the IEEE International ..., 1991 - Citeseer
... for the following reasons: The ability to track an object in three **dimensions** implies that ... flow
computation at video rates (but with delay), the ISMAP board gathers global **histogram** statistics,
and ... off-line so the real-time computation burden is only 6 multiplications and **4** additions ...
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Responses of visual-**tracking** neurons from cortical area MST-l to visual, eye and head motion
P Thier, RG Erickson - European Journal of Neuroscience, 1992 - interscience.wiley.com
... Lines transecting the two-**dimensional histograms** represent the discharge gradient in the
frontoparallel plane as ... is identified as the direction associated with the vector of momentary target
velocity at the ... Figure 4 shows the distribution of the preferred directions for the 30 MST-l ...
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[PDF] Elliptical head **tracking** using intensity gradients and color **histograms**   psu.edu [PDF]
S Birchfield - IEEE Computer Society Conference on Computer ..., 1998 - Citeseer
... Moreover, the head is well approximated by a simple two-**dimensional** model, namely an ellipse,
thus ... This is accomplished via a hypothesize-and-test procedure [4, 7] in which the good ... c si are
the matching scores based on intensity gradients and color **histograms**, respectively. ...
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Detecting and **tracking** eyes by using their physiological properties, dynamics, and appearance   psu.edu [PDF]
A Haro, M Flickner, I Essa - cvpr, 2000 - computer.org
... The algorithm com- putes the **histogram** for the current frame, back-integrates it, and keeps a
certain amount of the brightest pixels (about 1/1000 of the ... The trackers have **four dimensional**
state vectors ... **position**, H-**position**, **velocity** in the M direction, and ve- locity in the H direction ...
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Single particle **tracking**. Analysis of diffusion and flow in two-**dimensional** systems   nih.gov [PDF]
H Qian, MP Sheetz, EL Elson - Biophysical journal, 1991 - Elsevier
... of diffusion along only one axis, and so we treat the diffusion as one-**dimensional**.) Qian etal ... in
estimating the drift rate should be <2[D2/(M(N - m)(ΔT)2]/4.Forexample,withNΔT ... Experimental
estimates of (v) and(AvAv) are obtained from the measured **histogram** ofvelocity as v =(v ...
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3-D particle **tracking** in a two-photon microscope: application to the study of molecular dynamics in nih.gov [HTML]
cells
V Levi, QQ Ruan, E Gratton - Biophysical Journal, 2005 - Elsevier
... Taken together, these results show that the method allows an accurate **tracking** of particles in
three **dimensions**. ... Figure 4. Tracking fluorescent beads in glycerol solutions. ... The initial point for
the trajectories was arbitrarily set in (0,0,0). (B) **Histogram** of diffusion coefficients ...
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Tracking and chasing in houseflies (Musca)   mit.edu [PDF]
C Wehrhahn, T Poggio, H Bülthoff - Biological Cybernetics, 1982 - Springer
... 125 Fig. 3. 3-**dimensional** reconstruction of a flight episode where a female fly is **tracking** another
fly. The data points were taken at an interval of 12.5 ms. Flight duration is 225 ms ... 3 and for 4 other
tracks. ... Figure 6 shows the amplitude **histogram** of & of 5 **tracking** female flies. ...
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